

AMENDMENTS TO THE CLAIMS

1-18 (Canceled)

19. (Currently Amended) A remultiplexing apparatus comprising:

a control information selecting section for selecting packets containing control information from media streams of different types, the media streams having multiplexed control information packets and media information packets, wherein at least one of the media information packets has clock information that is generated by appending a media time base that is utilized to regenerate a clock signal when decoding the media information;

a program control information editing section which edits the control information contained in the selected control information packets and generates modified control information packets;

a program organizing section which selects a plurality of media information packets corresponding to required programs;

a clock information reallocating section for reallocating the clock information of selected media information packets by synchronizing to a received transmission path clock signal;

a remultiplexing section which multiplexes the modified control information packets and selected media information packets from the media streams to produce a remultiplexed media stream;

wherein the remultiplexing section preferentially multiplexes selected media information packets containing program clock information.

20. (Previously Presented) The remultiplexing apparatus according to claim 19, wherein said program organizing section selects the required programs according to viewability restricting information defined as the program type information.

21- 22. (Canceled)

23. (Currently Amended) A remultiplexing method comprising the steps of:
selecting packets containing control information from media streams of different types, the media streams having multiplexed control information packets and media information packets, wherein at least one of the media information packets has clock information that is generated by appending a media time base that is utilized to regenerate a clock signal when decoding the media information;
editing the control information contained in the selected control information packets and generating modified control information packets;
selecting a plurality of media information packets corresponding to required programs;
reallocating the clock information of selected media information packets by synchronizing to a received transmission path clock signal;
multiplexing the modified control information packets and selected media information packets from the media streams to produce a remultiplexed media stream, wherein selected media information packets containing program clock information are preferentially multiplexed.

24. (Previously Presented) The remultiplexing method according to claim 23, wherein the selected programs are selected according to viewability restricting information defined as the program type information.

25. (New) A receiver apparatus comprising:

a receiver unit for receiving a remultiplexed bit stream,

wherein the remultiplexed bit stream includes modified program control information and media information packets received from a plurality of multiplexed input bit streams,

wherein the modified program control information is generated by editing contents of the selected program control information packets,

wherein contents of the selected program control information are selectively updated by checking whether the contents of the program control information contained in the multiplexed input bit stream updated,

wherein the selected program control information packets are selected in packets containing program control information from the multiplexed input bit stream according to packet identification numbers and outputting multiplexed media information packets, and

wherein the multiplexed input bit streams include a combination of media information packets with packets of program information.

26. (New) A method of decoding a remultiplexed bit stream comprising:

receiving a remultiplexed bit stream, wherein the remultiplexed bit stream includes multiplexed modified program control information and media information packets received in a plurality of multiplexed input bit streams;

extracting modified program control information from the received remultiplexed bit stream, wherein the modified program control information is generated by editing contents of the selected program control information packets by checking whether the contents of the program control information contained in the multiplexed input bit stream updated;

extracting program-specific control information from the received remultiplexed bit stream; and

extracting and decoding media information packets corresponding to the specified program, wherein the multiplexed input bit streams includes a combination of media information packets with packets of program information.

27. (New) A receiver for decoding a remultiplexed transport stream generated using the remultiplexed method of claim 23.